

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: American Sign Language

Middle School		State Requirements			High School Suggested Education Plan																											
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested																								
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<div>Workforce Trends</div> <div>Many interpreters work part time. Those who are on salary usually work full time (40 hours a week). However, if an interpreter is a freelancer, it can be difficult to find a job that provides more than 30 hours a week, although the more mobile you are the more opportunities there will be.</div> <div>Get the Facts</div> <div>American Sign Language was first developed around 1817, after the first American school for the deaf opened in Connecticut. American Sign Language was adapted from the French system of signing by Thomas Gallaudet and Laurent Clerc.</div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>		<div>2.00 credits + 1.00 credit from introductory or elective courses</div> <div>3.00 credits for completion</div>																												

College & Careers

Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

- > Certificate
- > Associate degree
- > Bachelor degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

Sample Occupations

- > Audiologist
- > Sign Language Interpreter/Translator
- > Speech-Language Pathologist

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Biotech Research & Development Biotechnology

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Workforce Trends While biotechnology is still in its infancy, it is a dynamic career field that is expanding by leaps and bounds. "Biotechnology has become the centerpiece of therapy of all ailments, from heart disease and cancers to the common cold," says Carl B. Feldbaum, president of the Biotechnology Industry Organization (BIO). Get the Facts Biotechnology is predicted to be one of the most important applied sciences of the 21 st century.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.		<table><tr><th>Course #</th><th>Introductory Courses: (preferred)</th><th>Credit</th></tr><tr><td>51.1105</td><td>Health Science, Introduction</td><td>.50</td></tr><tr><td colspan="2">Foundation Courses: (required)</td><td></td></tr><tr><td>51.1099</td><td>Biotechnology</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>51.1315</td><td>Medical Anatomy & Physiology</td><td>1.00</td></tr><tr><td>51.1315</td><td>Medical Terminology</td><td>.50</td></tr><tr><td>51.1316</td><td>Health Science, Advanced (capstone course)</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table>				Course #		Introductory Courses: (preferred)	Credit	51.1105	Health Science, Introduction	.50	Foundation Courses: (required)			51.1099	Biotechnology	1.00	Elective Courses:			51.1315	Medical Anatomy & Physiology	1.00	51.1315	Medical Terminology	.50	51.1316	Health Science, Advanced (capstone course)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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Sample Occupations

- > Biochemist
- > Biotechnology Technician
- > Immunohematologist
- > Laboratory Asst.
- > Microbiologist
- > Toxicologist

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High School to College and Career Pathway: Secondary

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Pathway: Therapeutic Services Pharmacy

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Workforce Trends <u>Pharmacy Technician:</u> With increased medical needs of an aging population and additional tasks given to pharmacy techs., many job opportunities will be created, especially for those with formal training and certification. <u>Pharmacist:</u> New opportunities are emerging for pharmacists in managed care organizations, where they analyze trends and patterns in medication use, and in pharmacoeconomics—the cost and benefit analysis of different drug therapies. Get the Facts Pharmaceutical makers are accustomed to a research-to-market cycle of as long as 10 years in order to discover, develop and commercially launch a new drug.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district. In Utah, a pharmacist must be licensed.			Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.				2.00 credits + 1.00 credit from introductory or elective courses 3.00 credits for completion																												

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Sample Occupations

- > Pharmacy Aide
- > Pharmacy Technician
- > Pharmacist

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High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Health Informatics

Medical Office Administrative Assistant

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Workforce Trends According to the Utah Department of Workforce Services, a total of 11,000 average annual job openings are expected for this occupation through the year 2010. Get the Facts As insurance policies become more intricate, and as government sets more guidelines and creates new laws surrounding the profession, there is an increased need for administrative help within hospitals, clinics, and other medical offices.																																										
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Sample Occupations
> Medical Coder
> Medical Secretary
> Medical Records Technician

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High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Dental

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Workforce Trends The dental industry is in critical need of dental assistants. Dentists are hiring more assistants to perform routine tasks so that they may devote more time to complex procedures. Employment for dental assistants is expected to increase 27% through the year 2014. Get the Facts Research shows that chronic gum disease leads to the release of inflammatory substances and bacteria into the blood stream, which leads to heart disease. In Utah, a dental hygienist and a dentist must be licensed.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.		Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.																																

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Sample Occupations

- > Dental Assistant
- > Dental Ceramist
- > Dental Hygienist
- > Dental Laboratory Technician
- > Dentist
- > Orthodontic Technician

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High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services

Emergency Medical Technician (EMT)

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<div><div>Workforce Trends</div><div>A growing and urbanized population will demand more emergency services, increasing the demand for professional emergency medical technicians (EMT) and paramedics. In Utah, the annual growth rate for EMTs is estimated to be 39%.</div><div>Get the Facts</div><div>There are approximately 750,000 EMTs across the nation. EMT-Basics comprise 71% of this total; EMT-Intermediates 7%; and EMT-Paramedics 22%.</div></div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>		3.00 credits for completion																																			

Note: For more information talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education

Pathway: Therapeutic Services

Exercise Science/Sports Medicine

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																												
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																												
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Workforce Trends Job growth will be concentrated in health care industry settings, such as ambulatory health care services and hospitals. Get the Facts Physical Therapy is ranked among the top 10 fields, and is expected to remain a top field well into the 21 st century. In Utah, a physical therapist, physician, and physician assistant must be licensed.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.			Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.																																

Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

- > Certificate
- > Associate degree
- > Bachelor degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

Sample Occupations

- > Athletic Trainer
- > Physical Therapist
- > Physical Therapist Assistant
- > Physical Therapist Aide
- > Massage Therapist
- > Physician
- > Physician Assistant

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Medical Assistant

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit -- class of 2011)	There are a number of options for education and training beyond high school, depending on your career goals. > Certificate > Associate degree > Bachelor degree > Professional degree > On-the-job training > Apprenticeship > Military training
Pre-Algebra 1.00	Elm. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit -- class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit -- class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	World Civilizations .50	Geography for Life .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life. 50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or complete pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			2.00 credits + 1.00 credit from introductory or elective courses 3.00 credits for completion	
Workforce Trends A growing and aging population and technological advances in medicine make this one of the fastest growing occupations through the year 2014. According to the Utah Department of Workforce Services, a total of 27,000 average annual job openings are expected for this occupation through the year 2010. Get the Facts Medical assistants held about 387,000 jobs in 2004.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.		Course #	Introductory Courses: (preferred)	Credit			
				51.1105	Health Science, Introduction	.50			
				Foundation Courses: (required)					
				51.0801	Medical Assistant	2.00			
				Elective Courses:					
				1.1315	Medical Anatomy & Physiology	1.00			
				51.1315	Medical Terminology	.50			
				51.1316	Health Science, Advance (capstone course)	1.00			
				32.0199	Student Internship (Critical Workplace Skills)	.50			
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Nursing

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																						
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																						
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Workforce Trends <p>Health care is the largest and fastest-growing industry in the United States, employing over 10 million workers in more than 200 careers.</p> Get the Facts <p>In the U.S., registered nurses held approximately 2.4 million jobs in 2004, making registered nursing the largest health care occupation. About 3 out of 5 RN jobs are in hospitals, in inpatient and outpatient departments.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																													

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Optical Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																										
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<div><div>Workforce Trends</div><div>Job openings for optical technicians are expected to be limited because the occupation is small.</div><div>Get the Facts</div><div>The American Optometric Association says about 70% of people who use computers every day will develop vision problems such as dry eye. The Vision Council of America estimates that about 62% of U.S. residents have vision defects.</div><div>In Utah, an optometrist and ophthalmologist must be licensed.</div></div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>																																	
								<div><div>Sample Occupations</div><div>> Optician Lab. Tech.</div><div>> Ophthalmic Lab. Technician</div><div>> Lathe Operator</div><div>> Lens Mounter II</div><div>> Lens Polisher</div><div>> Optical Instrument Assembler</div><div>> Optical Technician</div></div>																											
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High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Surgical Technician

Middle School		State Requirements			High School Suggested Education Plan						College & Careers																																			
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<p>Workforce Trends</p> <p>Demand for surgical technicians will rise as the population ages and as new technologies allow for more and varied surgeries. Hospitals will remain the primary employer, but physician offices and clinics, including ambulatory surgical centers, will provide most new jobs.</p> <p>Get the Facts</p> <p>Surgical technicians are commonly referred to as "scrubs." More than three-fourths of scrubs work in a hospital setting, with the exception of private scrubs who are employed directly by surgeons for special teams – like transplant work.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			<table><tr><th colspan="3">Career and Technical Education Recommended Pathway Courses</th></tr><tr><td colspan="3">(Students may select individual courses for exploration, or complete pathway for an in-depth focus.)</td></tr><tr><th colspan="3">CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</th></tr><tr><th>Course #</th><th>Introductory Courses: (preferred)</th><th>Credit</th></tr><tr><td>51.1105</td><td>Health Science, Introduction</td><td>.50</td></tr><tr><td colspan="3">Foundation Courses: (required)</td></tr><tr><td>51.0909</td><td>Surgical Technician</td><td>2.00</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>51.1315</td><td>Medical Anatomy & Physiology</td><td>1.00</td></tr><tr><td>51.1315</td><td>Medical Terminology</td><td>.50</td></tr><tr><td>51.1316</td><td>Health Science, Advanced (capstone course)</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>						Career and Technical Education Recommended Pathway Courses			(Students may select individual courses for exploration, or complete pathway for an in-depth focus.)			CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			Course #	Introductory Courses: (preferred)	Credit	51.1105	Health Science, Introduction	.50	Foundation Courses: (required)			51.0909	Surgical Technician	2.00	Elective Courses:			51.1315	Medical Anatomy & Physiology	1.00	51.1315	Medical Terminology	.50	51.1316	Health Science, Advanced (capstone course)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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Note: For more information talk to your school counselor.